

Surajit Khan

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📍 Bangalore, India

Profile Summary:

I am a **strategic** and **visionary Engineering Manager** with over **13 Years and 6 Months of experience** in the industry. I have extensive experience in **full life-cycle development projects** and **Agile methodology**. Currently, I manage a team of **10+ developers** and **QA engineers**, driving the successful delivery of **high-quality software solutions**.

My expertise includes **AI/ML, Java, Python**, and various **cloud technologies**. I excel in enhancing **operational efficiencies** and have a proven track record in leading **large, complex projects**, driving **departmental ownership**, and implementing **strategic initiatives** and **visionary products**.

I have extensive experience in diverse business sectors, including **e-commerce, education**, and **enterprise applications**.

Experiences:

Rakuten India Enterprise Private Limited

Associate Engineering Manager

Jun 2018 - Present

- Lead a team of **10+ developers** and **QA engineers** in delivering high-quality software solutions.
- Spearheaded **strategic initiatives** and **visionary products** for departmental growth.
- Owned several critical department functions, focusing on **AI implementation** and **operational efficiencies**.
- Managed the development of key projects, including the **Digital Employee Management Tool** and **License Management Platform**.
- Implemented **automation processes**, enhancing deployment and operational efficiency.

Fireeye Cybersecurity Private Limited

Senior Programmer

May 2016 - Jun 2018

- Led development and maintenance of critical software applications.
- Contributed to **infrastructure setup** and **automation processes**.

Foradian Technologies Private Ltd.

Team Lead/Senior Software Engineer

Jun 2011 - May 2016

- Guided junior team members and led the development of **Fedena**, a multipurpose school management software.
- Implemented complex features and ensured code quality and project success.

Technical Skills:

- AI/ML, Data Science
- Java, Python, Spring Boot
- Docker, Kubernetes, AWS/GCP

- DotNet, Golang, Ruby on Rails

Key Projects:

1. **Thesis: The Limits of Translation Quality Estimation with WMT17 Dataset**
Technology used : AI/ML
Synopsis : It examines how current **translation quality estimation (TQE)** models assess the **quality** of machine-translated text and identifies key **challenges** and **constraints** in the evaluation process. Through an in-depth analysis of the **WMT17 dataset**, the research highlights **gaps** in existing methodologies, assesses the impact of various factors on translation quality, and proposes potential **improvements** to enhance the **accuracy** and **reliability** of TQE systems.
2. **Digital Employee Management Platform**
Technology used : Java (Spring Boot), MySQL, API Swagger, Postman, React (UI)
Synopsis : This is a comprehensive solution designed to streamline and **integrate all internal business processes** into a single platform. This includes managing PCs, account, access cards, and other licenses. By centralizing these functions, the platform ensures a smooth and efficient **onboarding** and **offboarding** process, enhancing overall **operational efficiency** and reducing administrative overhead.
3. **Synthetic Data - Generator**
Technology used : AI/ML (GAN), FastAPI, StreamLit
Synopsis : It is an application designed to create **realistic test data** by generating data from sample inputs. This tool provides **high-quality**, diverse datasets that mimic real-world scenarios. By automating the data generation process, it enhances **operational efficiency** and is a key component of the **AI-Nization initiative**, helping teams efficiently test and validate systems to ensure robust and reliable software performance.
4. **Standardize Operation Analytics**
Technology used : Hadoop, Kafka, SDKs, React (UI)
Synopsis : It is an **AI-driven observability tool** designed to enhance **operational efficiency** by **centralizing** and **correlating logs** from all **microservices**. It provides **real-time error detection**, **automated alerts**, and **actionable insights**, reducing **downtime** and improving **system reliability**. By streamlining log management and leveraging AI for **proactive issue resolution**, this tool optimizes performance and minimizes **operational disruptions**.
5. **License Management Platform**
Technology used : Java (Spring Boot), Hadoop, Python, ML
Synopsis : Developed a robust platform to manage software licenses, ensuring compliance and reducing operational risks. The platform uses **AI/ML algorithms** for trend analysis and optimizing resource allocation. Key features include **Real-time insights**, **Automated onboarding/offboarding**, **Compliance management**, **Cost optimization**, Enhanced **operational efficiency**.

Academic Qualifications:

- **MS (AI & ML)**, Liverpool John Moores University, 2023
- **B.Tech (IT)**, Calcutta Institute of Engineering and Management, West Bengal University of Technology, 2011

For more details surajitkhan.in/resume